

FIG. 1

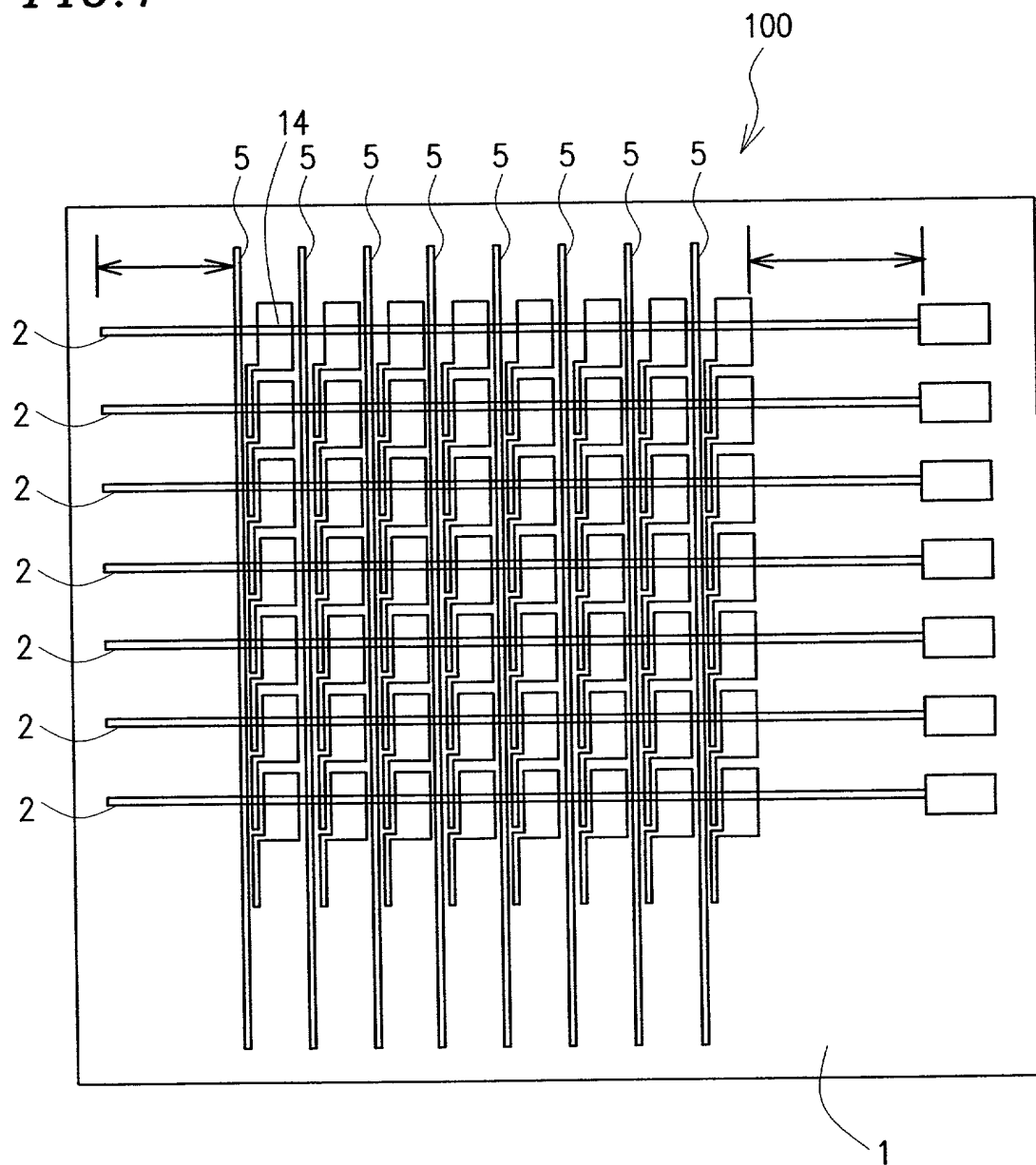


FIG. 2

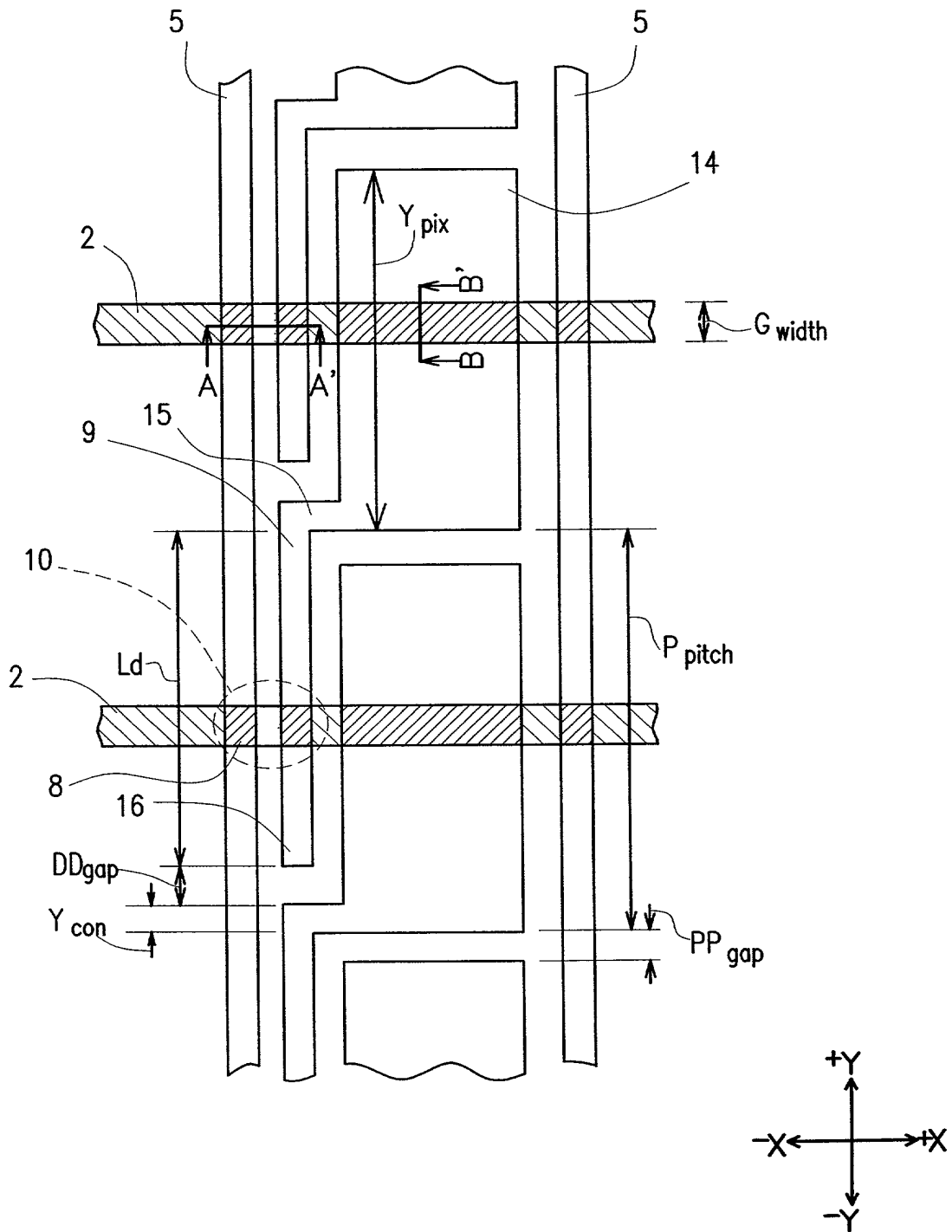


FIG. 3A

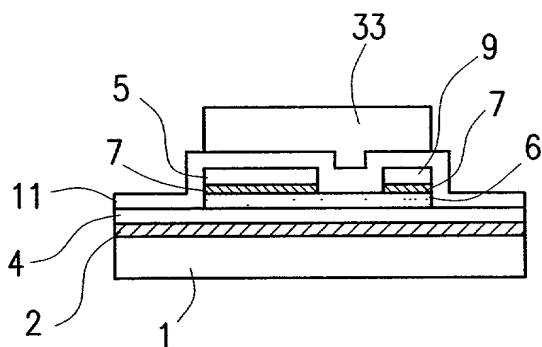


FIG. 3B

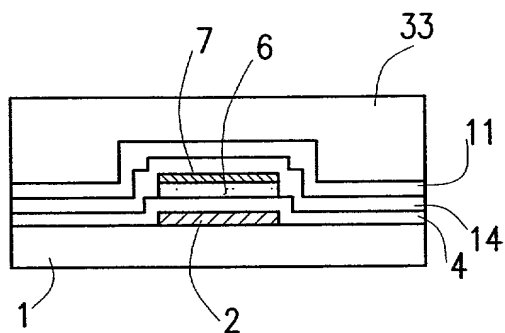


FIG. 3C

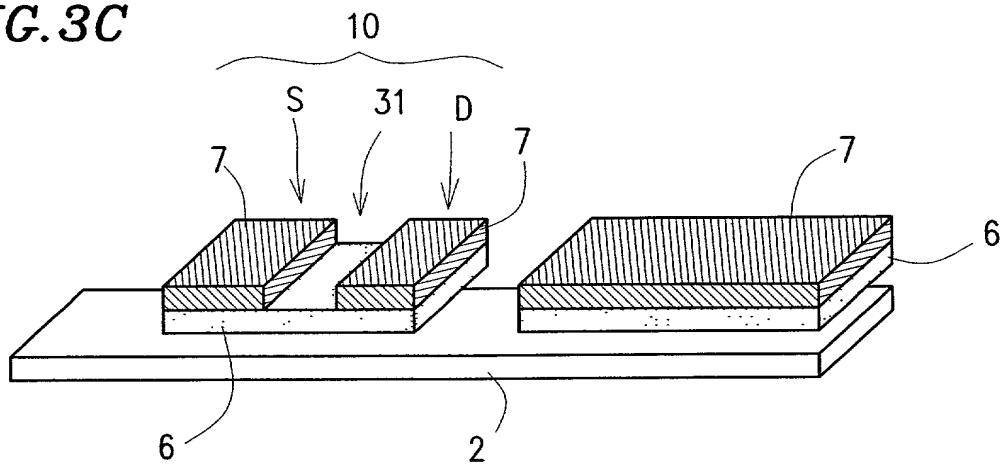


FIG. 4A

FIG. 4A

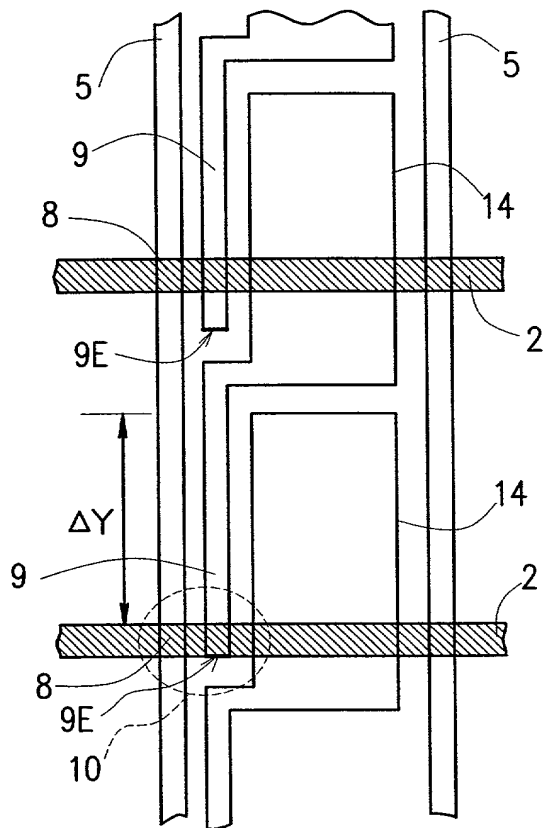
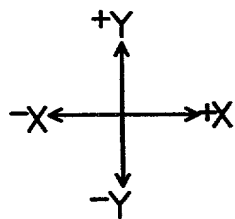
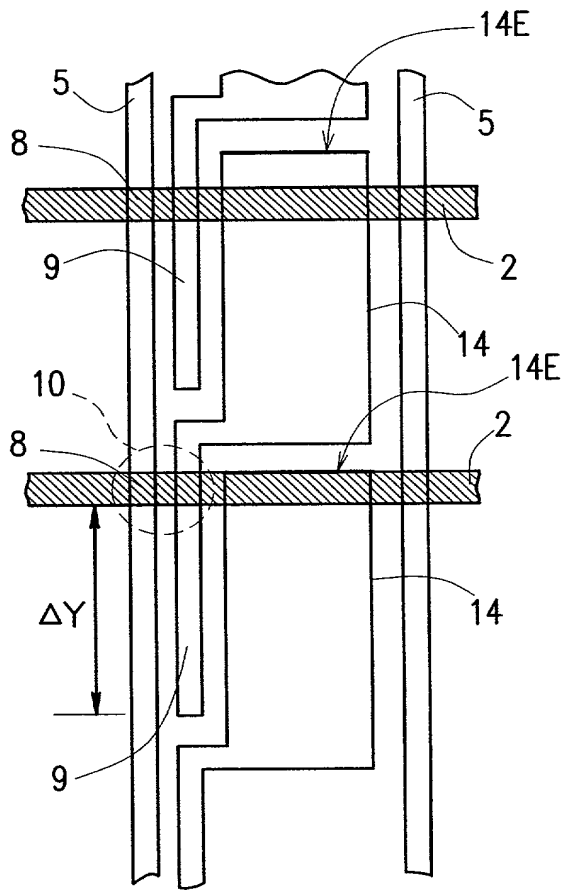


FIG. 4B



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	2	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
3	3	2	1	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
4	4	3	2	1	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
5	5	4	3	2	1	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81																			

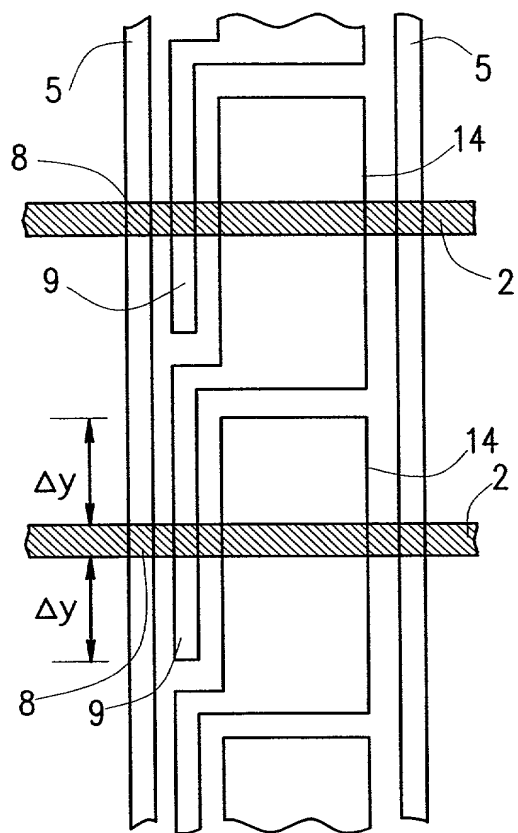


FIG. 6A



FIG. 6B

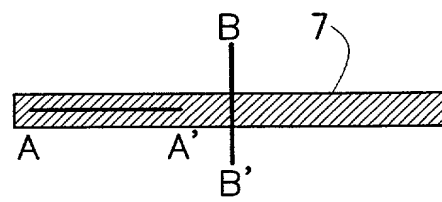
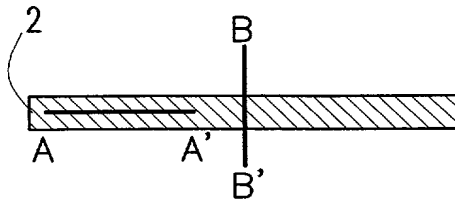
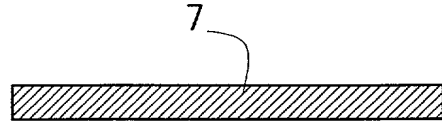


FIG. 6C

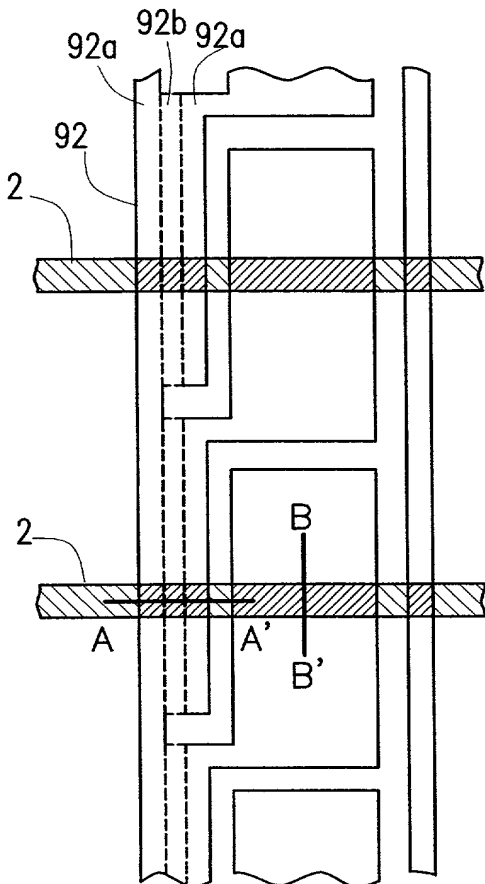


FIG. 6D

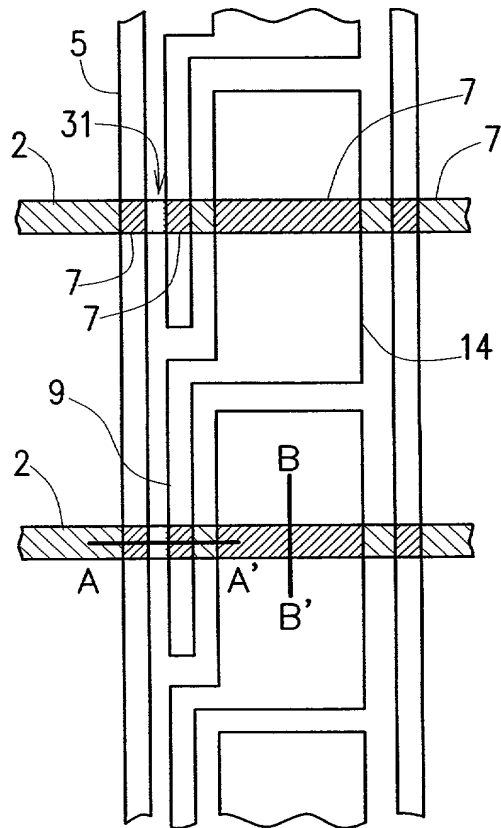


FIG. 7A

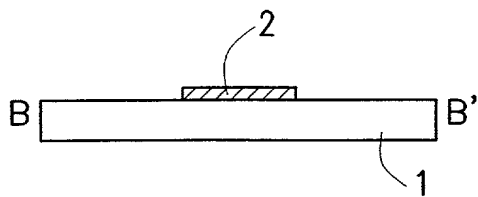
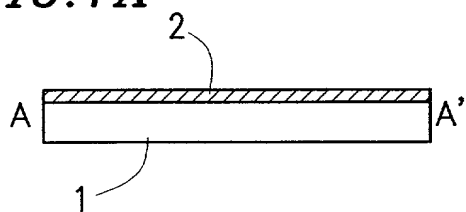


FIG. 7B

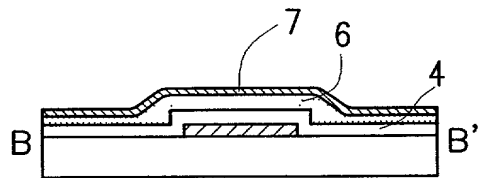
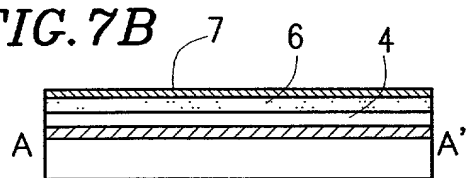


FIG. 7C

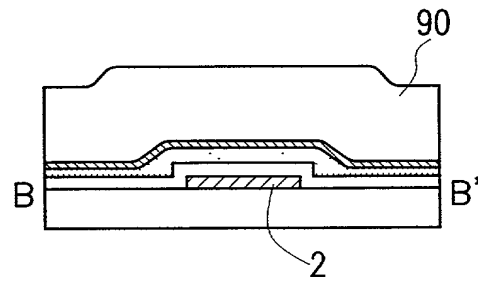
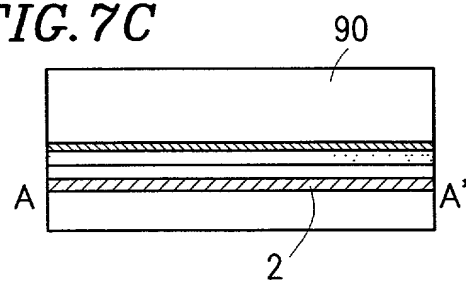


FIG. 7D

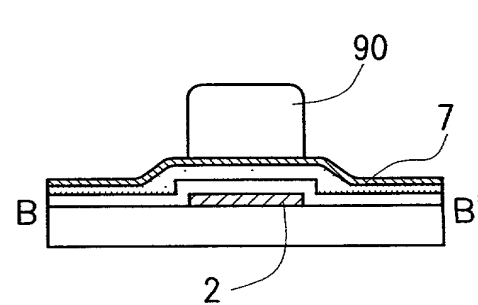
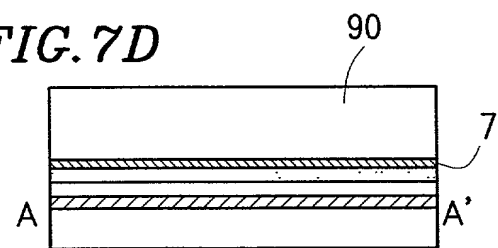


FIG. 7E

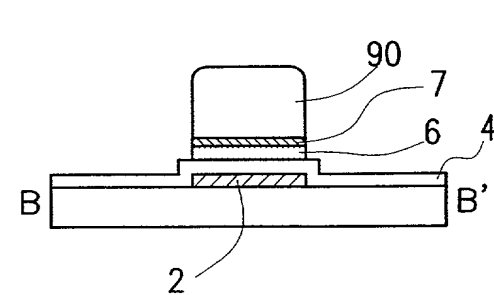
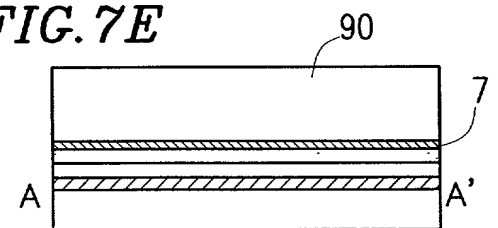


FIG. 7F

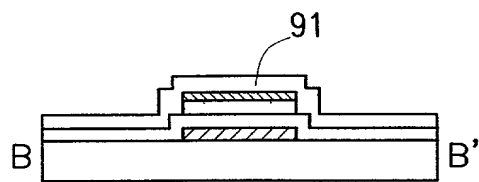
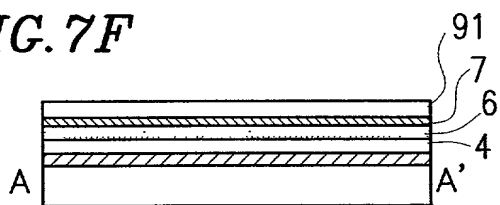


FIG. 7G

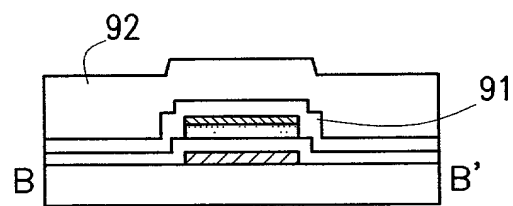
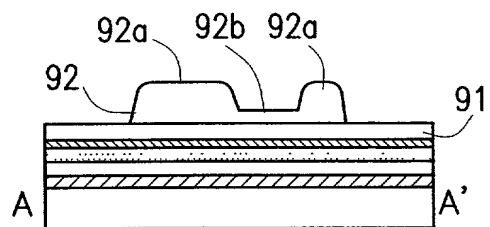


FIG. 7H

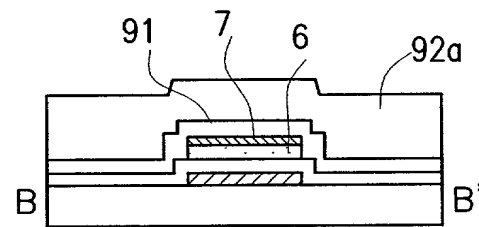
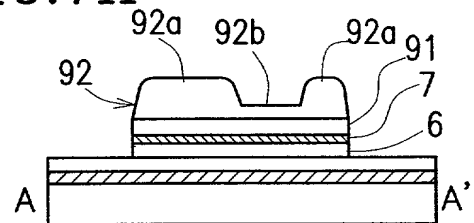


FIG. 7I

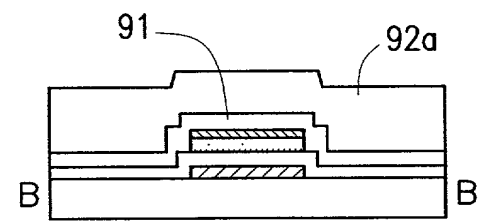
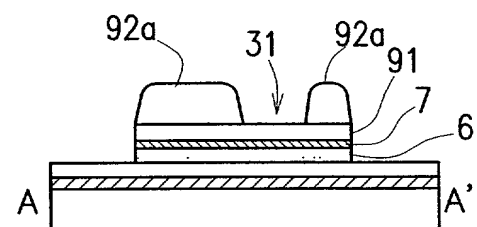


FIG. 7J

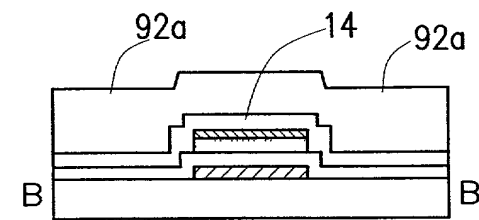
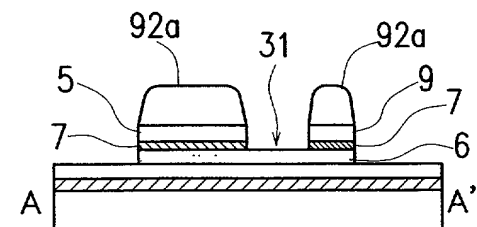


FIG. 7K

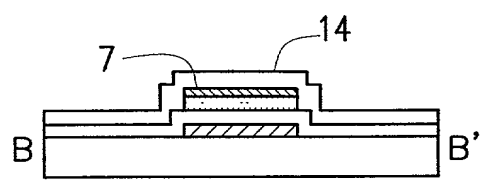
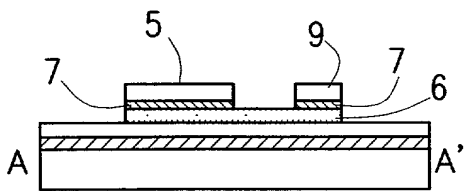


FIG. 7L

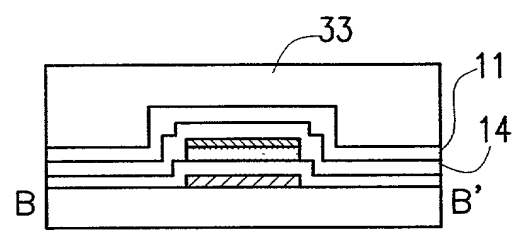
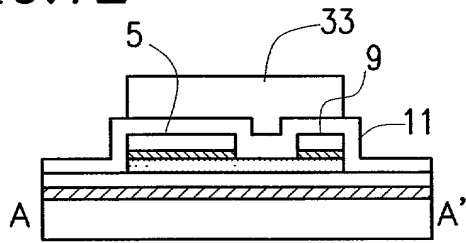


FIG. 8A

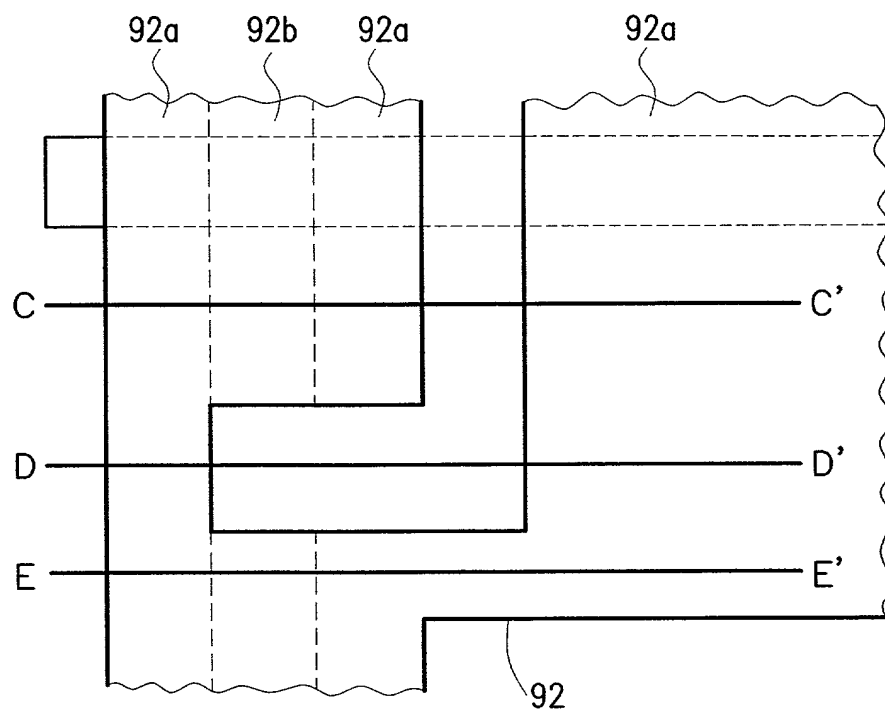


FIG. 8B



FIG. 8C

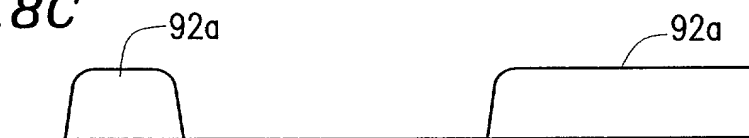


FIG. 8D



FIG. 9

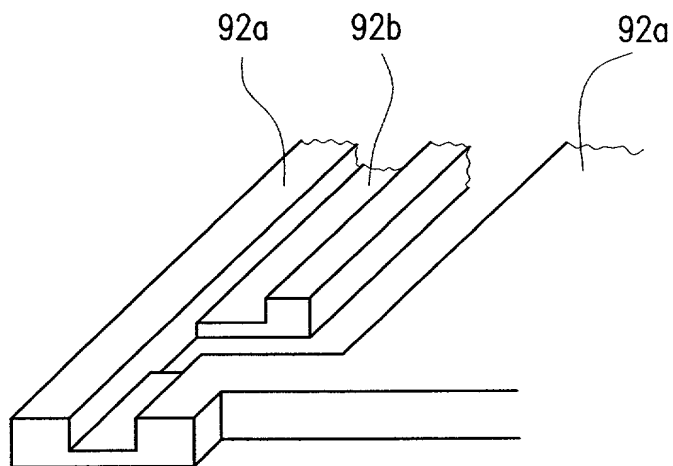


FIG. 10

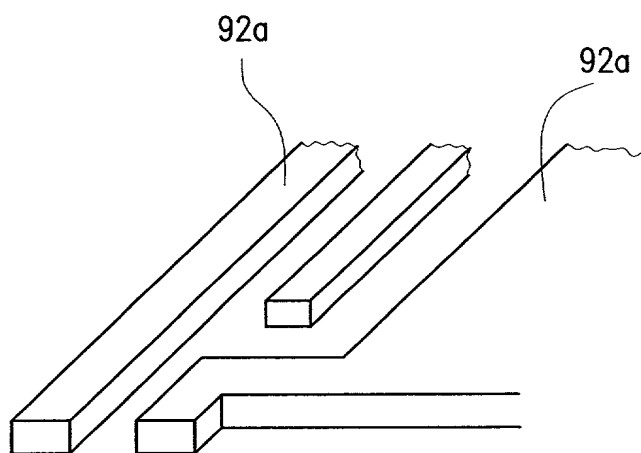


FIG. 11

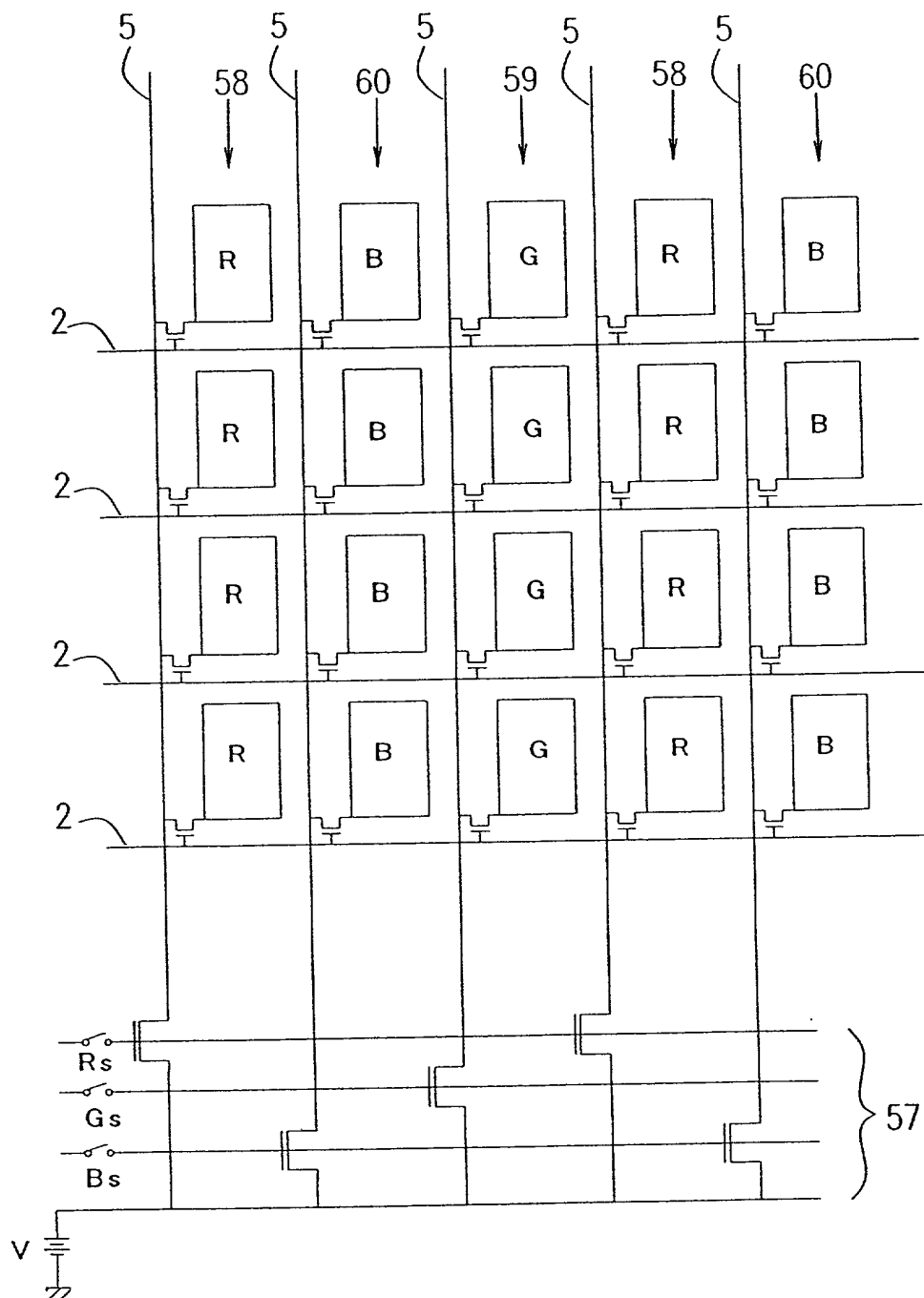


FIG. 12

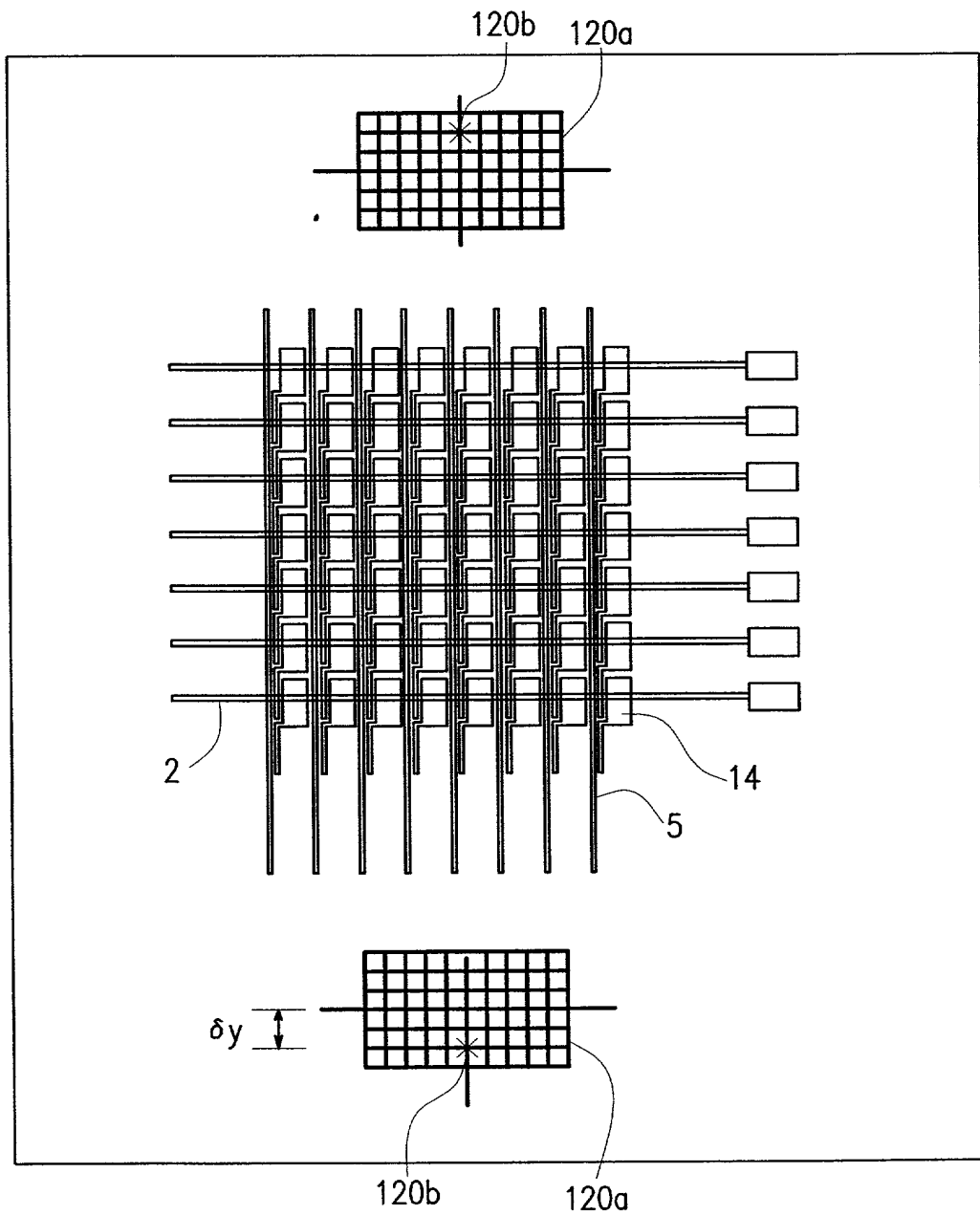
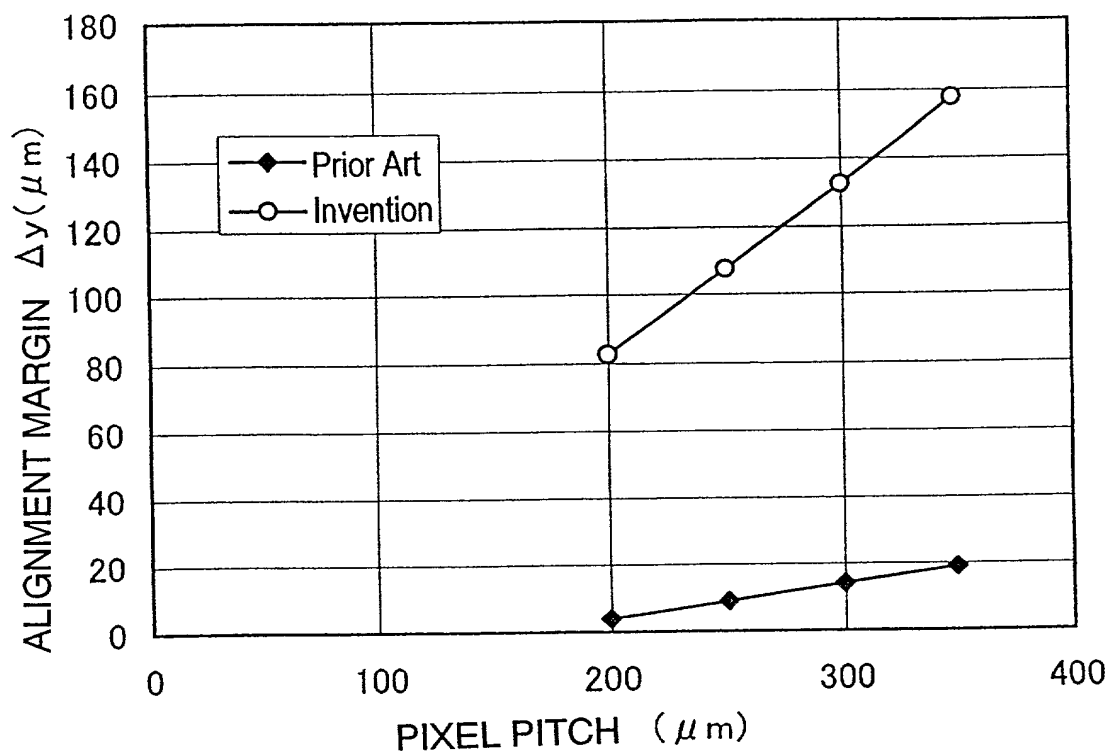


FIG.13



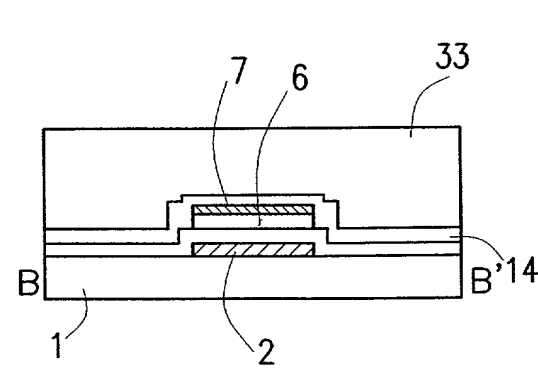
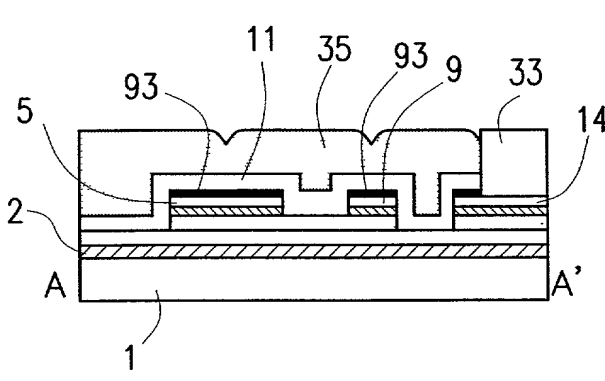
[illegible]

FIG. 16A

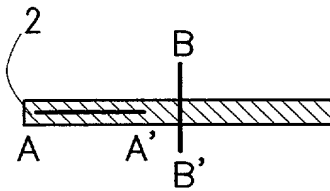


FIG. 16B

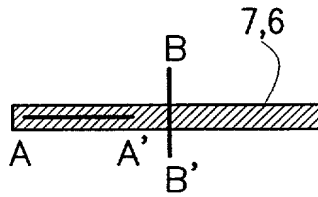
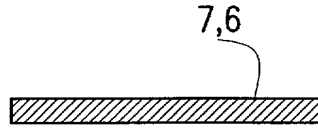


FIG. 16C

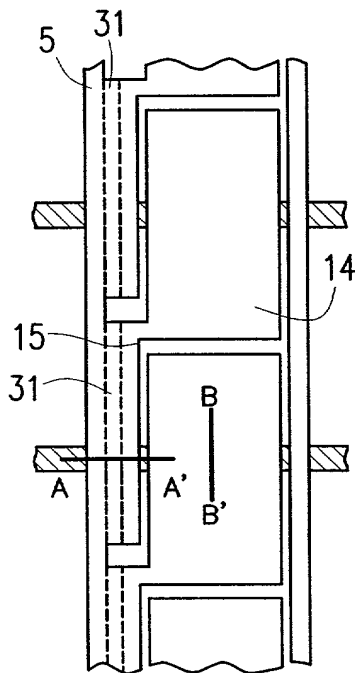


FIG. 16D

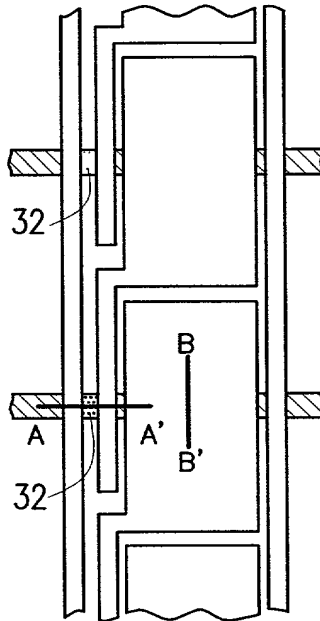


FIG. 16E

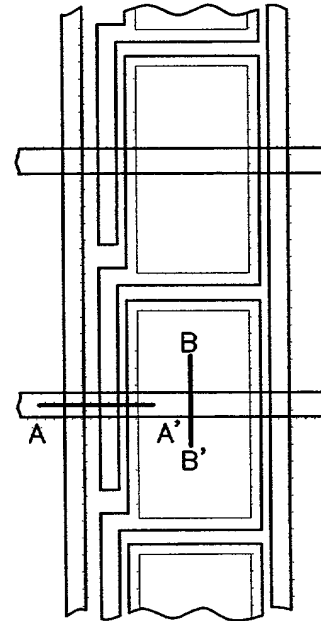


FIG. 18

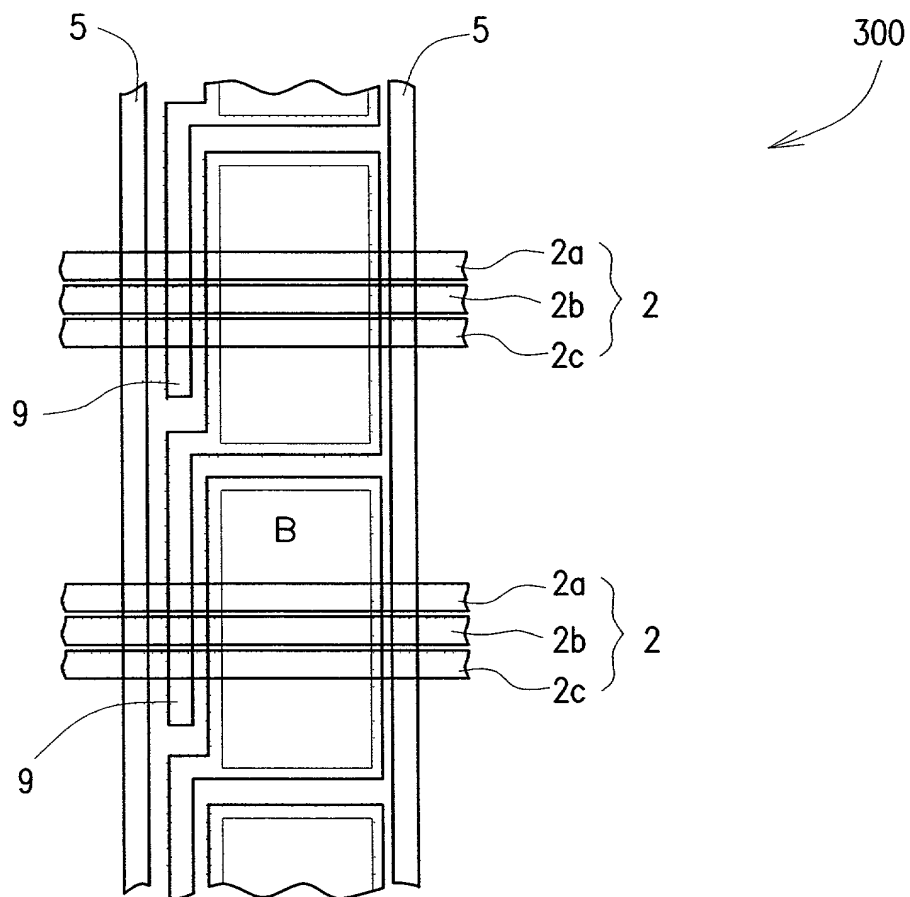


FIG. 19A

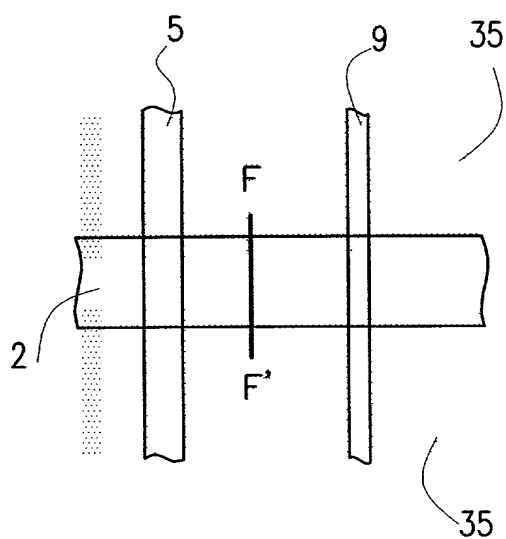


FIG. 19B

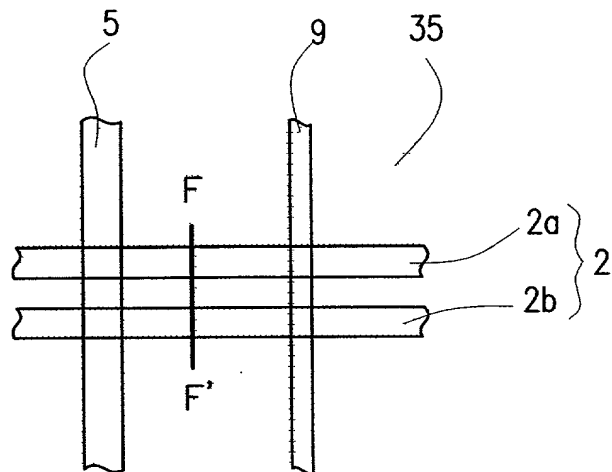


FIG. 19C

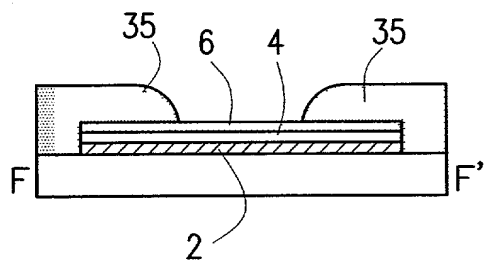


FIG. 19D

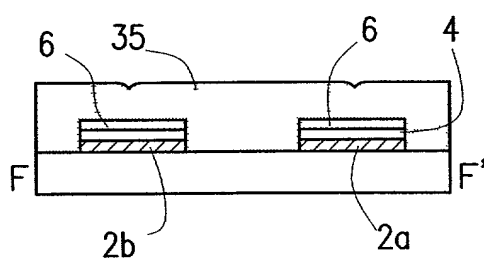


FIG. 20A



FIG. 20B

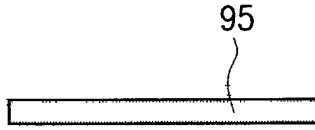


FIG. 20C

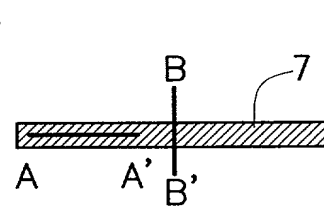
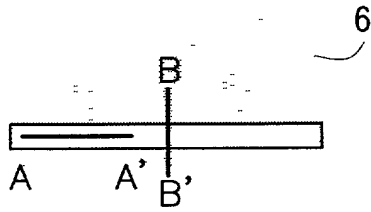
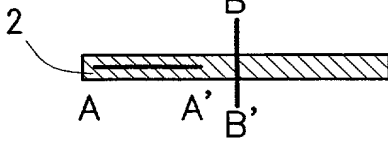


FIG. 20D

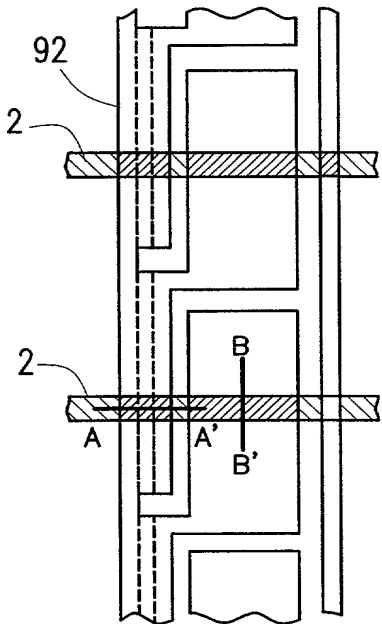


FIG. 20E

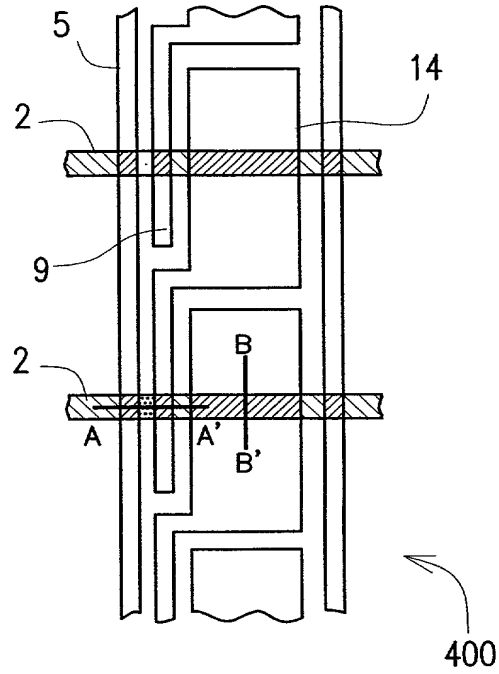


FIG. 21A

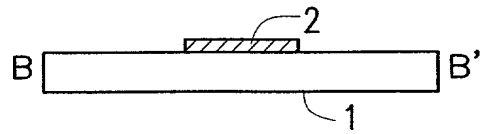
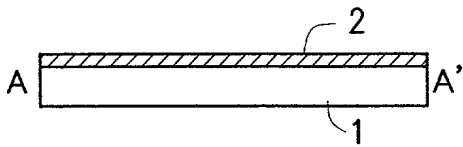


FIG. 21B

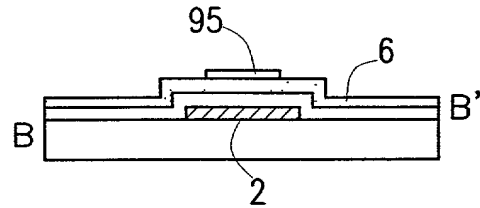
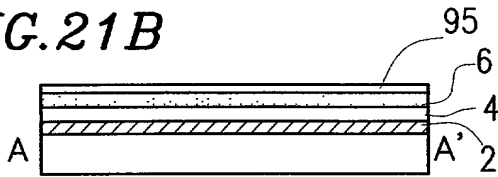


FIG. 21C

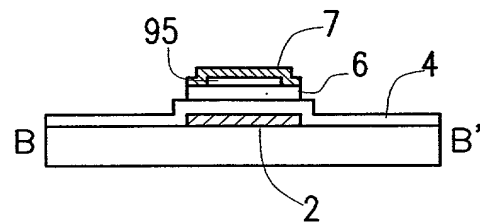
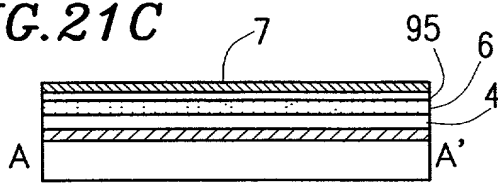


FIG. 21D

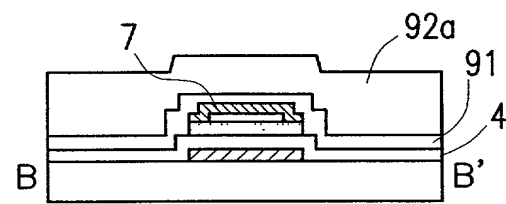
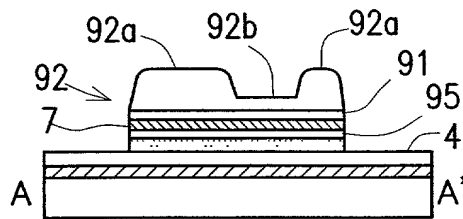


FIG. 21E

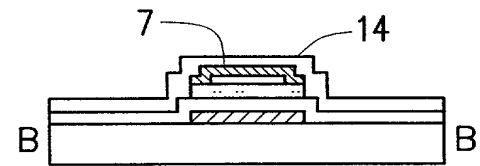
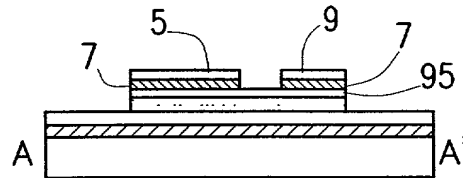


FIG. 21F

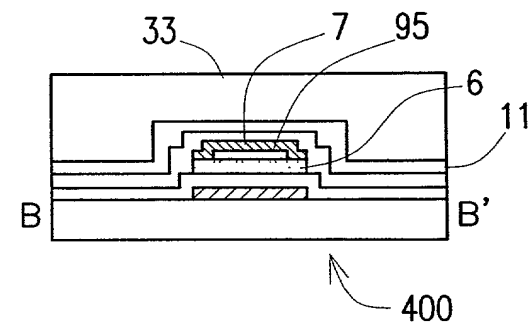
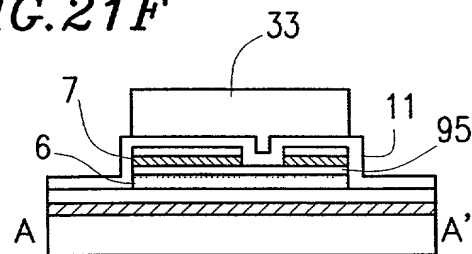
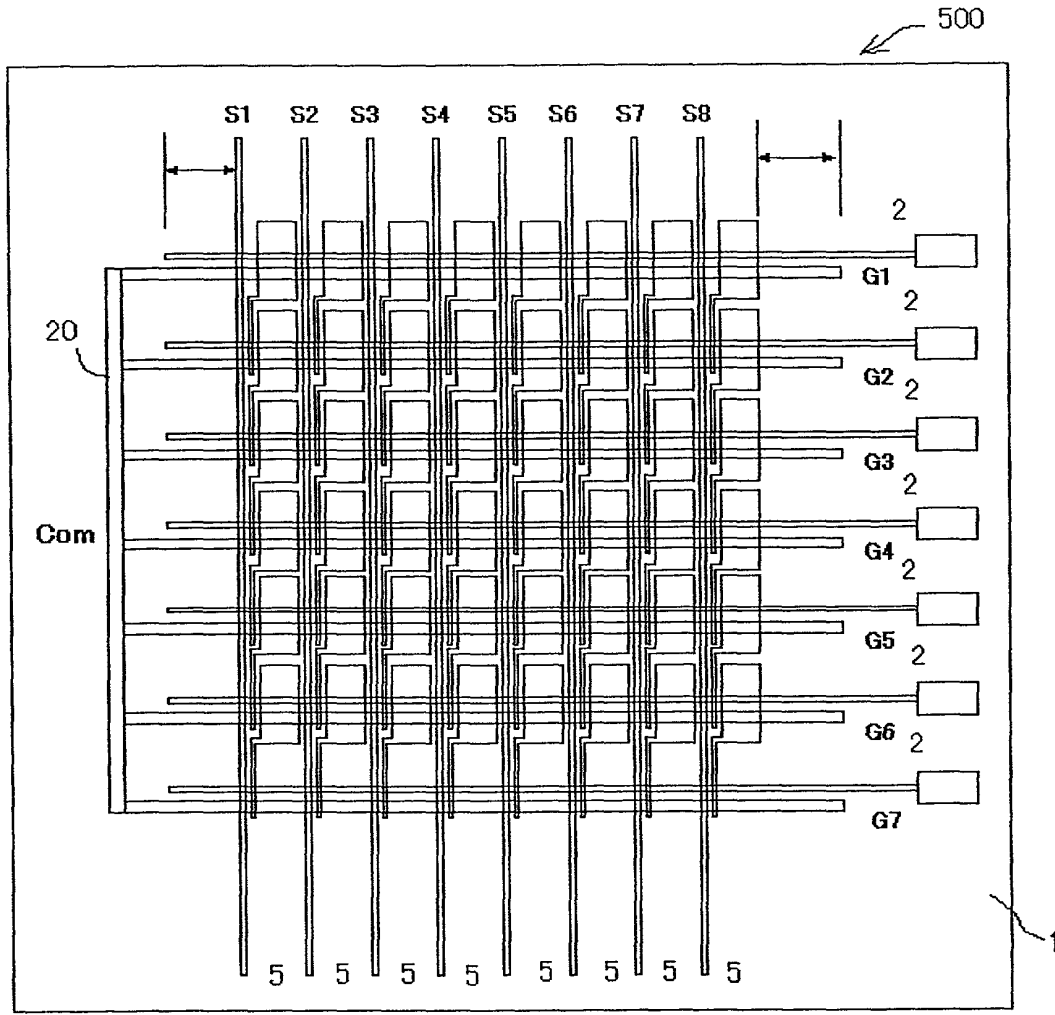
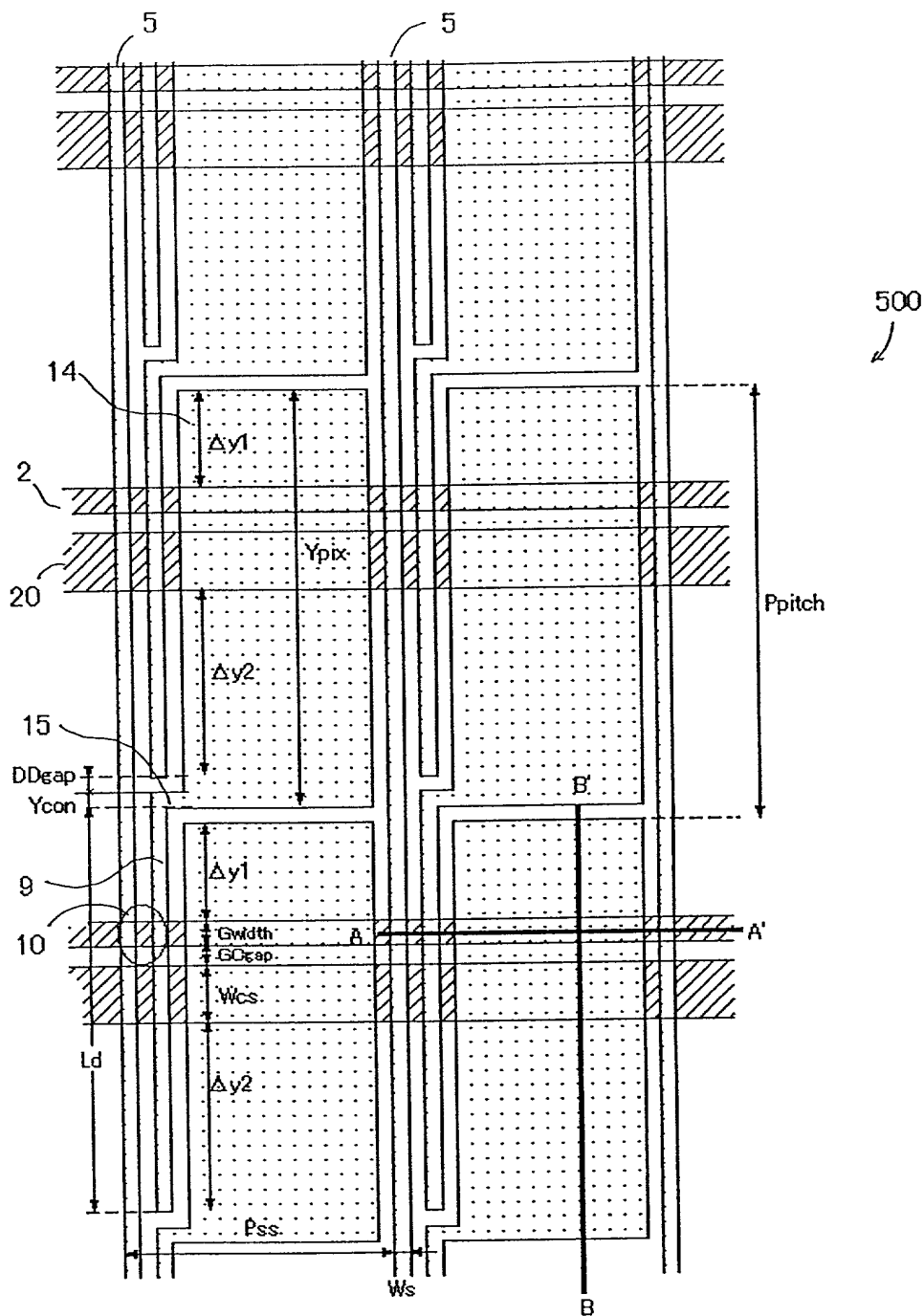


FIG. 22

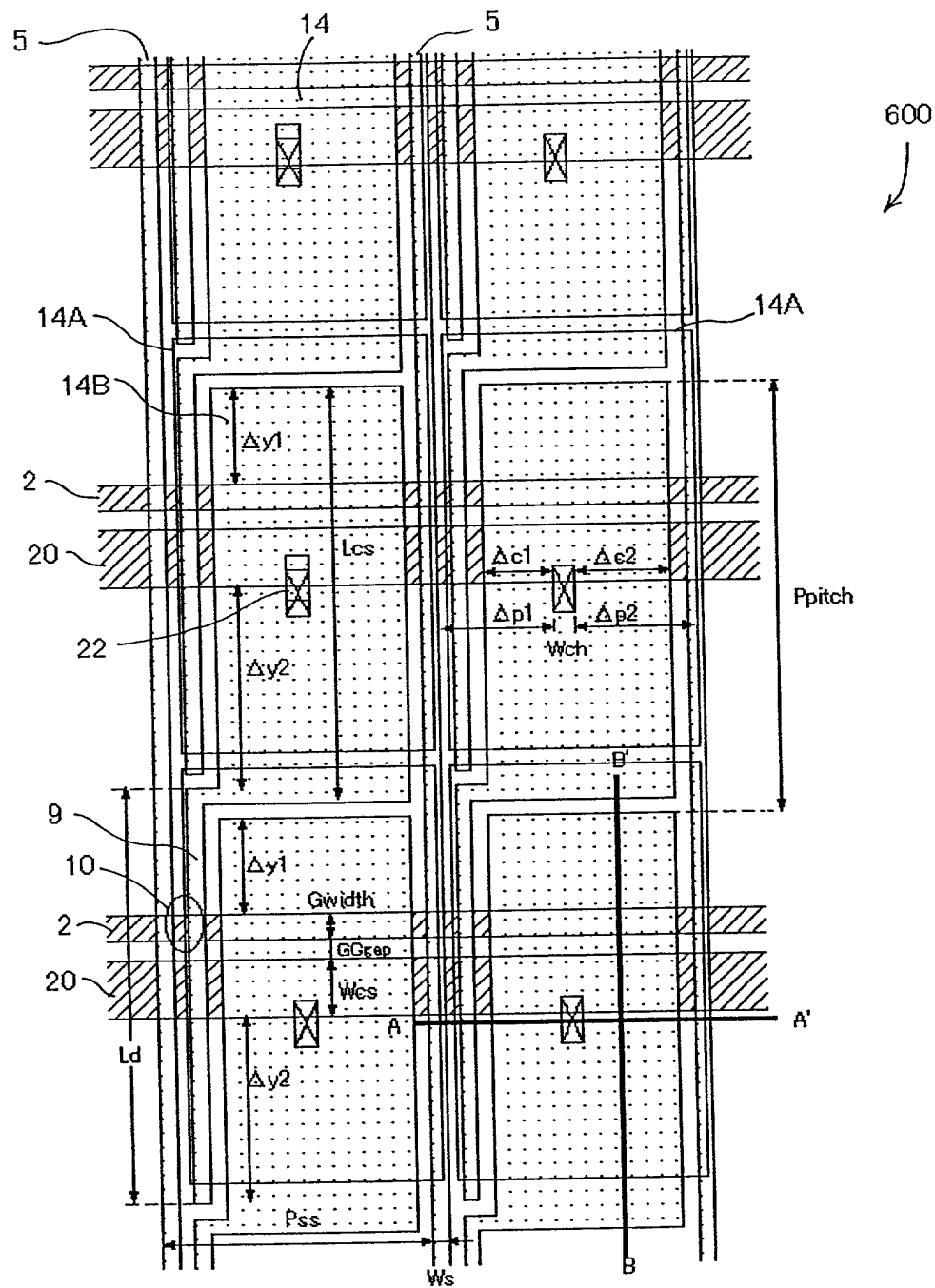


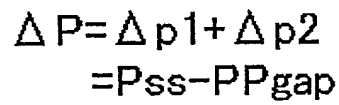
[illegible]

[illegible][illegible]

[illegible]

FIG. 26



[illegible]
$$\Delta Y = \Delta y_1 + \Delta y_2$$

$$= P_{pitch} - G_{width} - PP_{gap} - W_{cs} - GC_{gap} - DD_{gap} - Y_{con}$$

FIG. 29

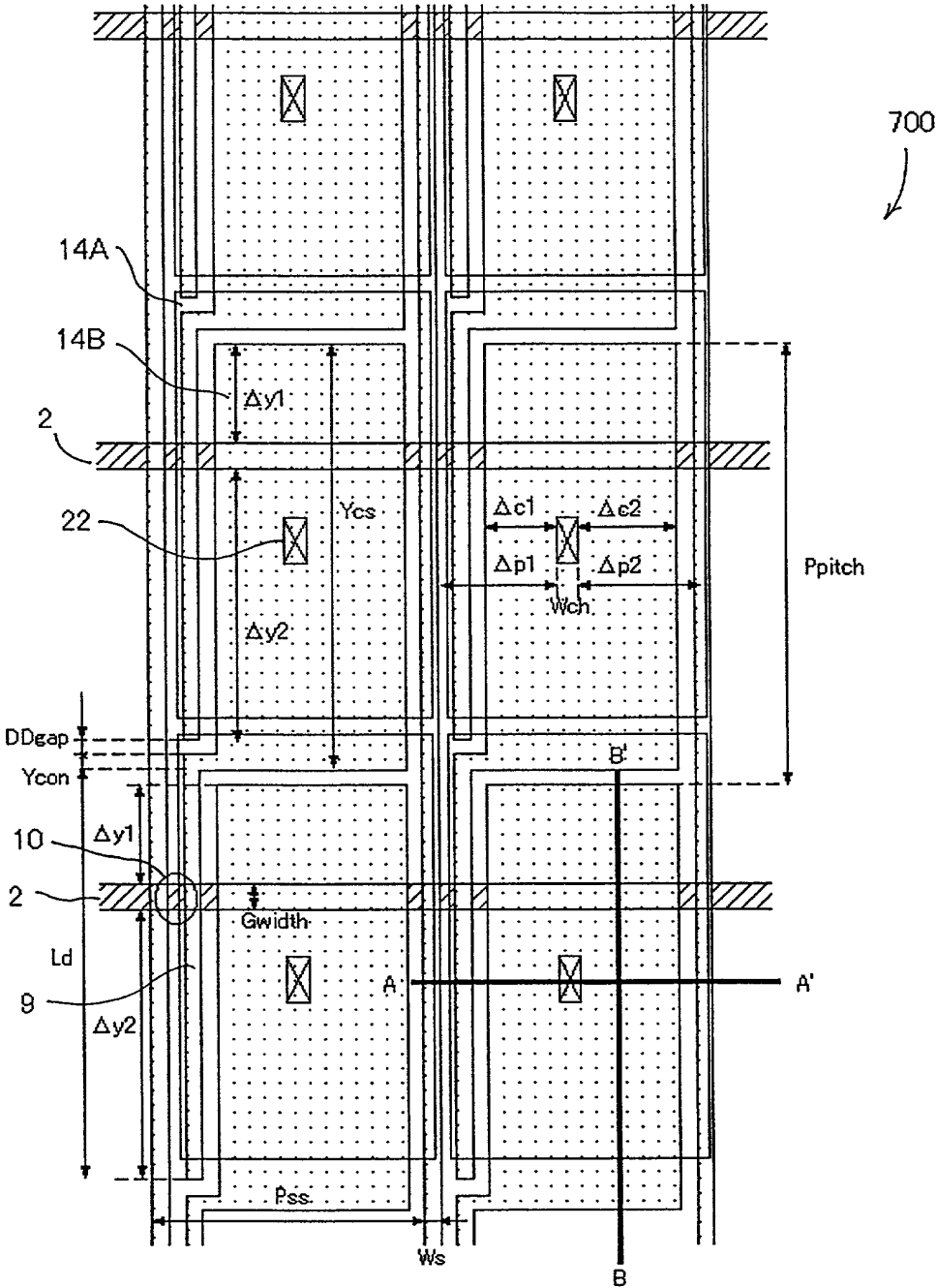
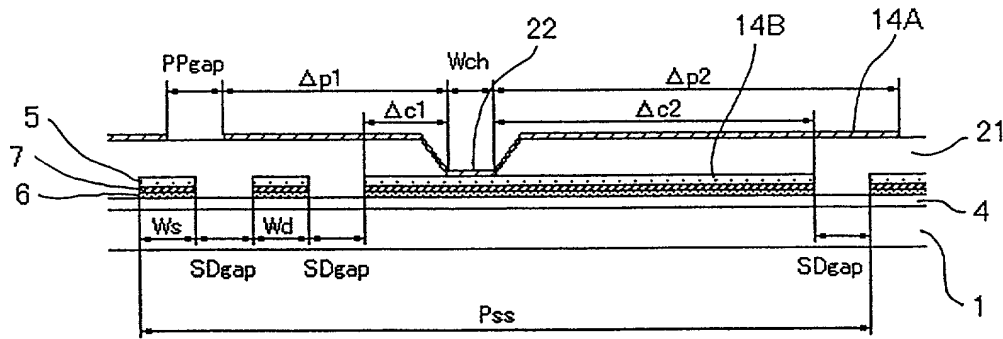


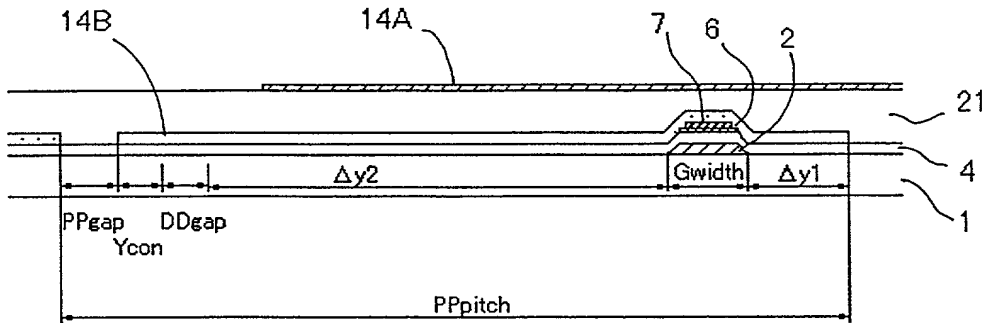
FIG.30



$$\begin{aligned}\Delta C &= \Delta c1 + \Delta c2 \\ &= Pss - Ws - Wd - 3 \cdot SDgap - Wch\end{aligned}$$

$$\begin{aligned}\Delta P &= \Delta p1 + \Delta p2 \\ &= Pss - PPgap\end{aligned}$$

FIG.31



$$\begin{aligned}\Delta Y &= \Delta y1 + \Delta y2 \\ &= Ppitch - Gwidth - PPgap - DGgap - Ycon\end{aligned}$$

FIG.32

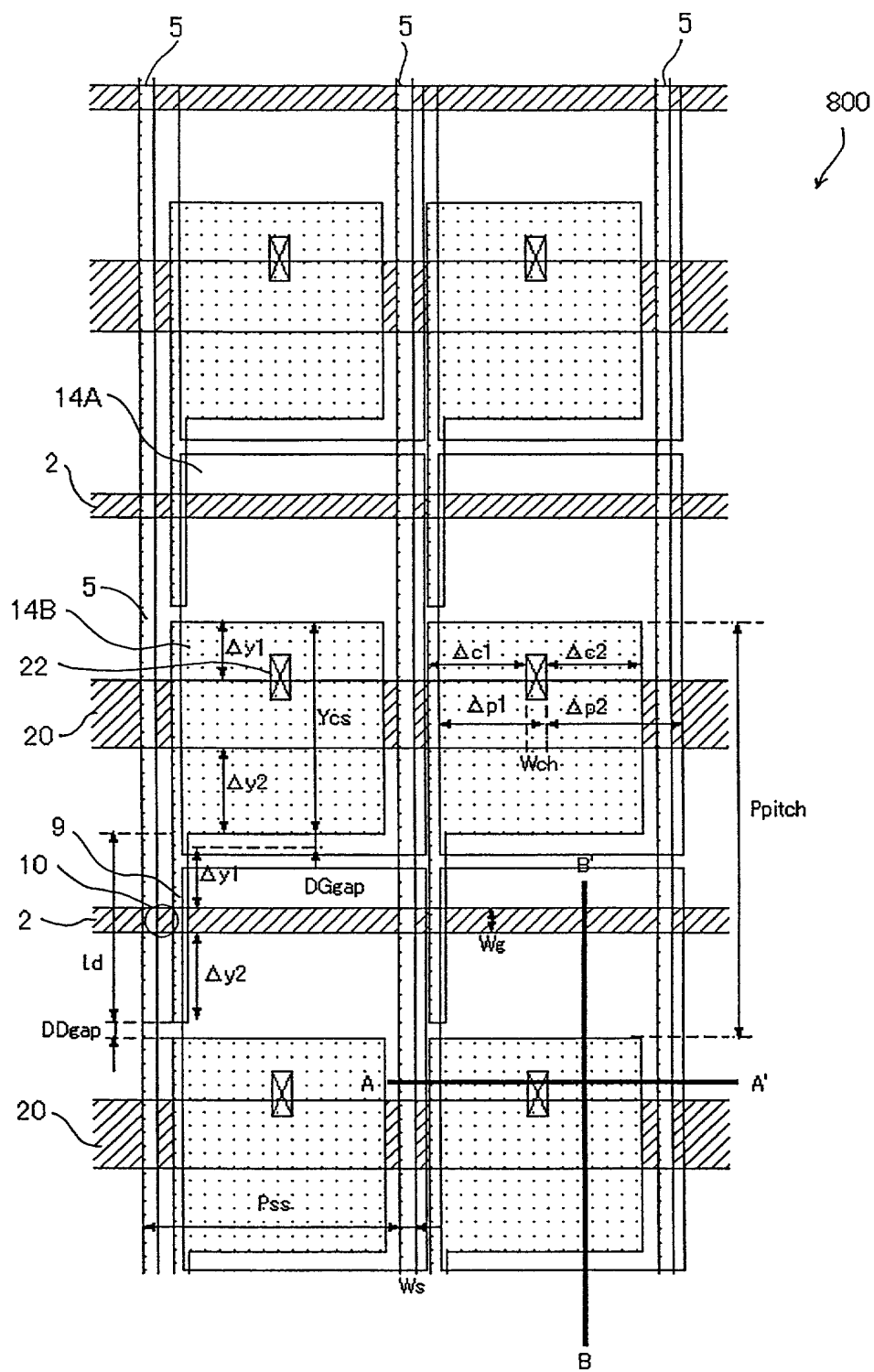
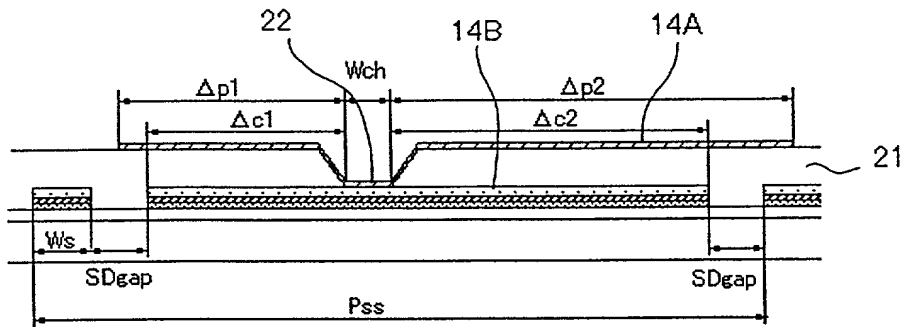


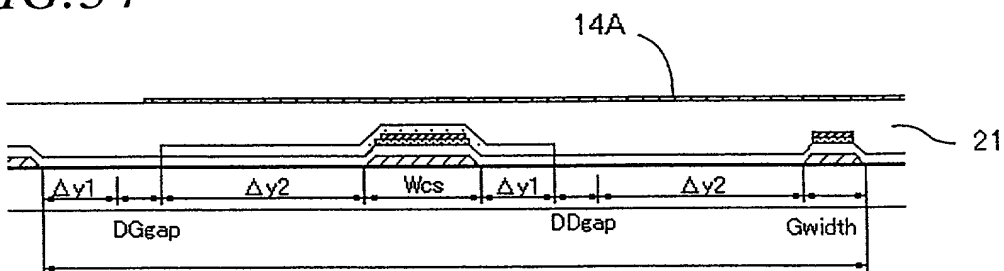
FIG.33



$$\begin{aligned}\Delta C &= \Delta c1 + \Delta c2 \\ &= Pss - Ws - 2 \cdot SDgap - Wch\end{aligned}$$

$$\begin{aligned}\Delta P &= \Delta p1 + \Delta p2 \\ &= Pss - PPgap\end{aligned}$$

FIG.34



$$\begin{aligned}\Delta Y &= \Delta y1 + \Delta y2 \\ &= (Ppitch - Gwidth - Wcs - DDgap - DGgap) / 2\end{aligned}$$

FIG.35

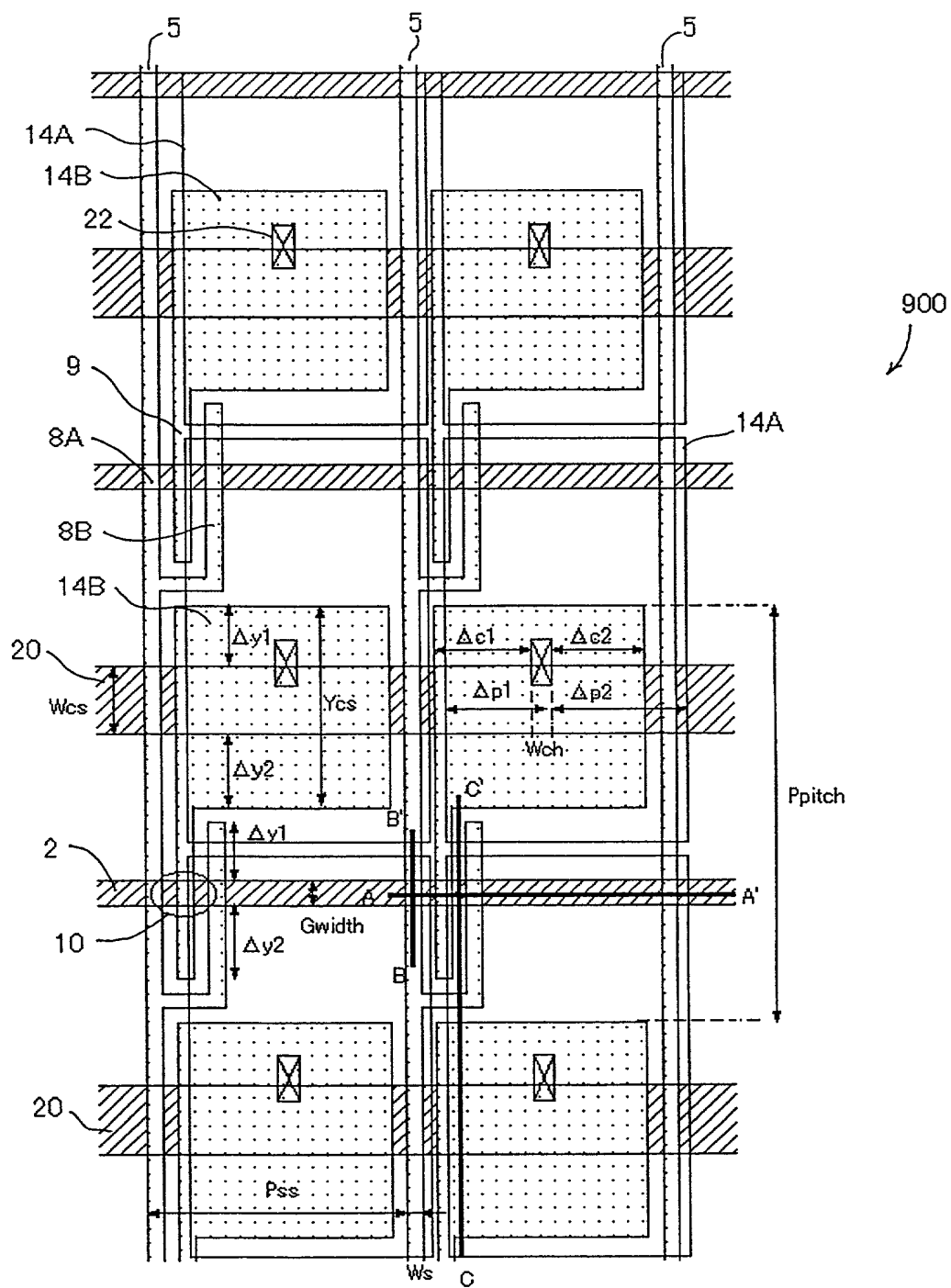


FIG.36

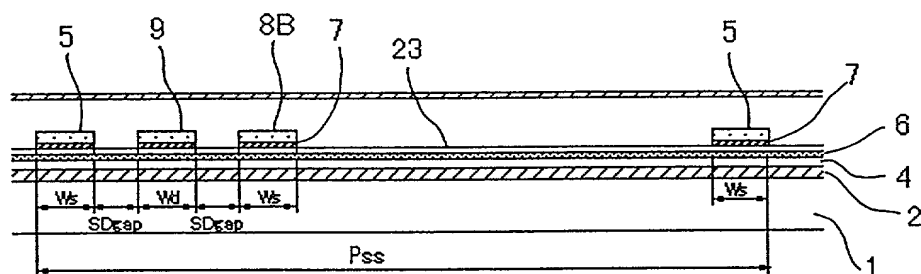


FIG.37

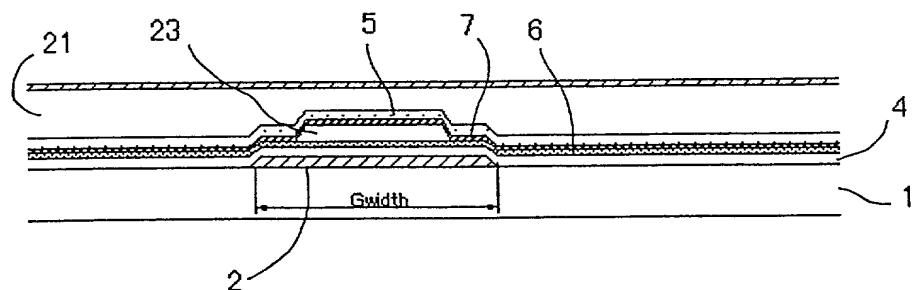
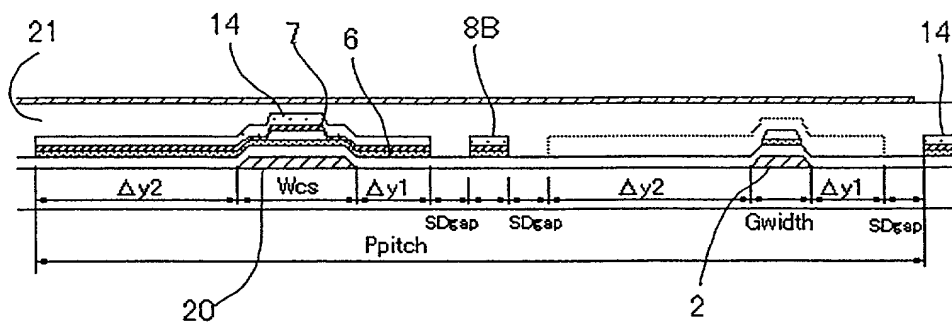


FIG.38



$$\Delta Y = \Delta y_1 + \Delta y_2$$

$$= (P_{pitch} - G_{width} - W_{cs} - W_s - 3 \cdot SD_{gap}) / 2$$

FIG. 39

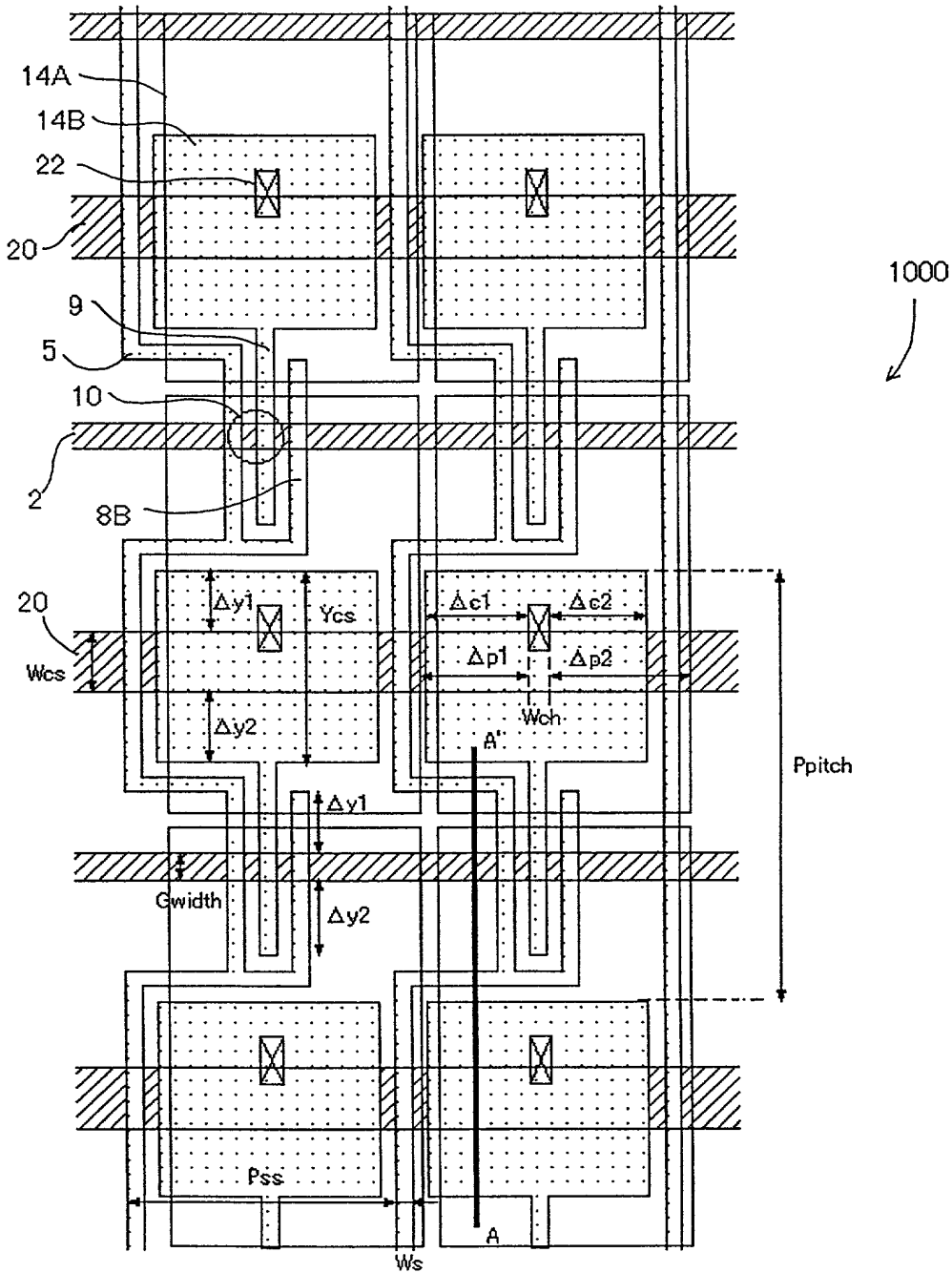
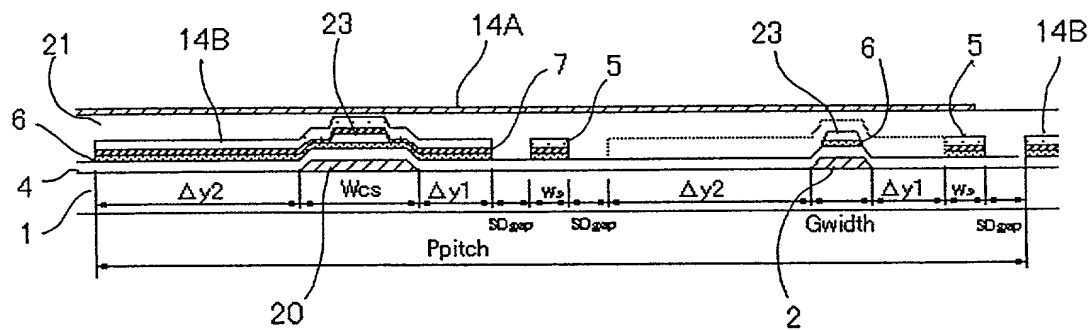


FIG. 40



$$\Delta Y = \Delta y1 + \Delta y2$$

$$= (Ppitch - Gwidth - Wcs - 2 \cdot Ws - 3 \cdot SDgap) / 2$$

FIG. 41A

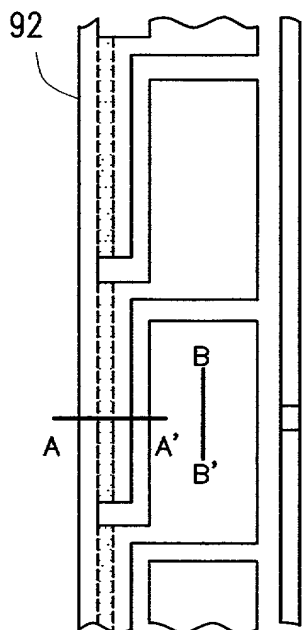


FIG. 41B

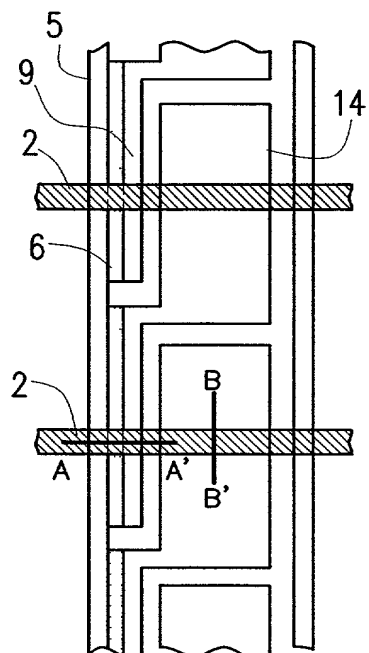
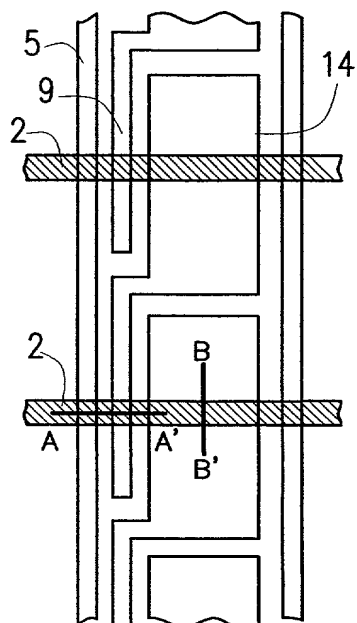


FIG. 41C



1100

FIG. 42A

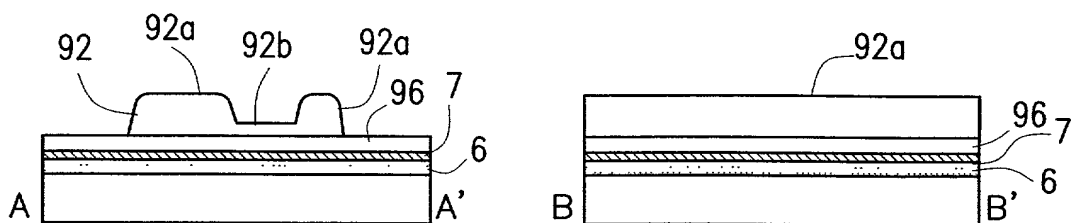


FIG. 42B

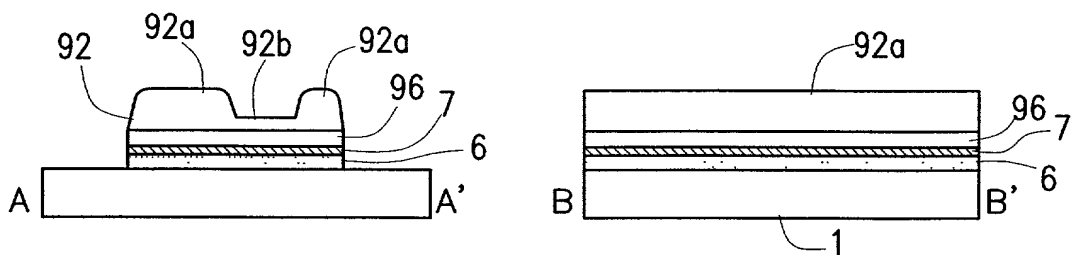


FIG. 42C

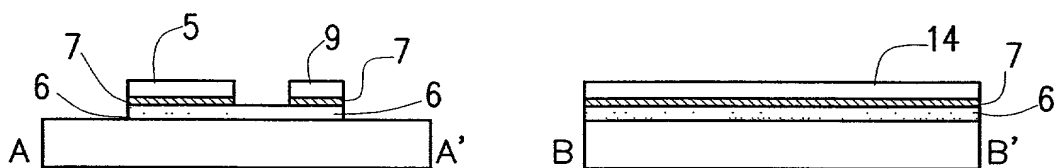


FIG. 42D

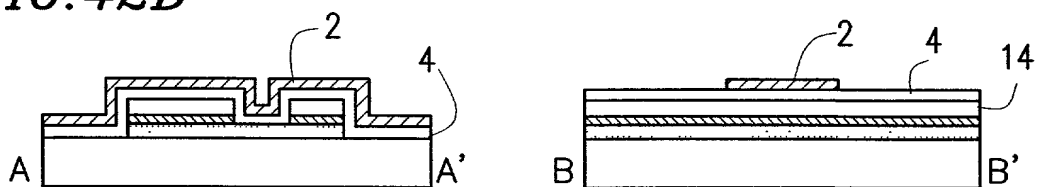
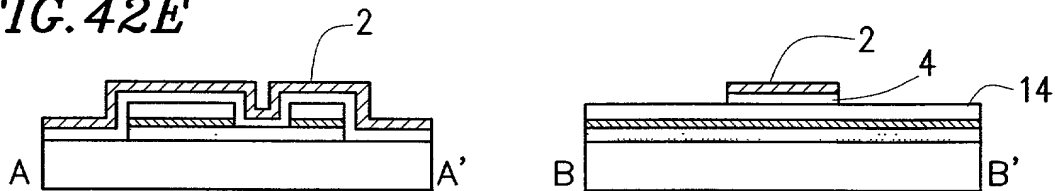


FIG. 42E



1100

FIG. 43

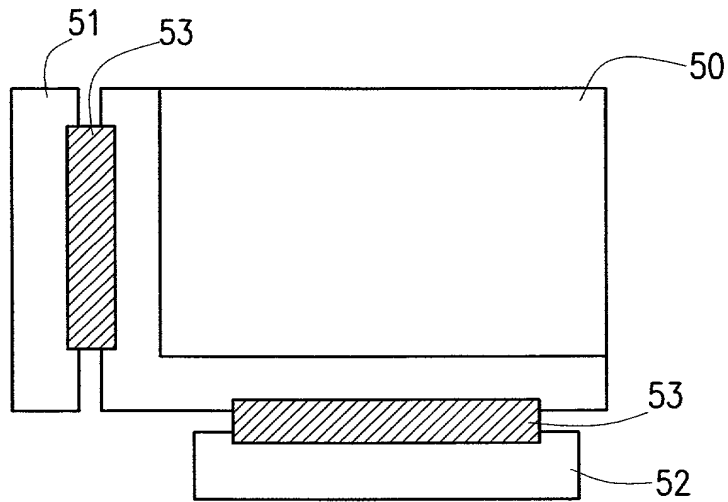


FIG. 44

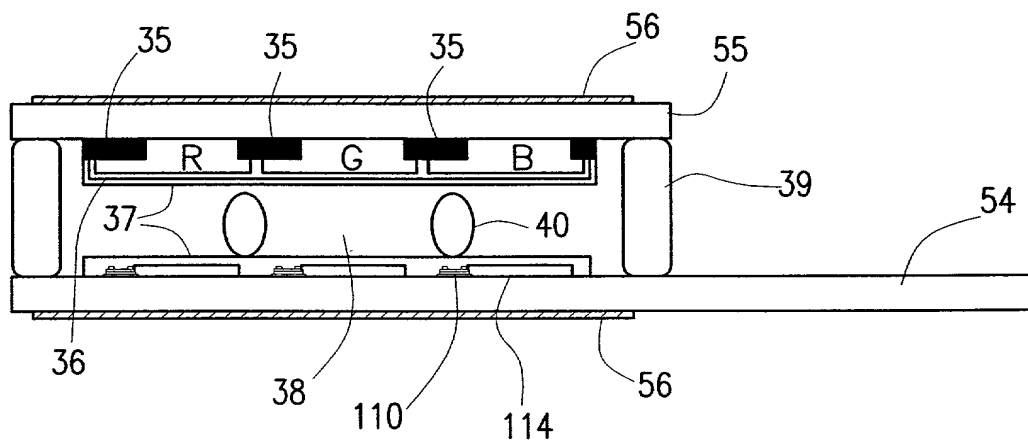


FIG. 45A

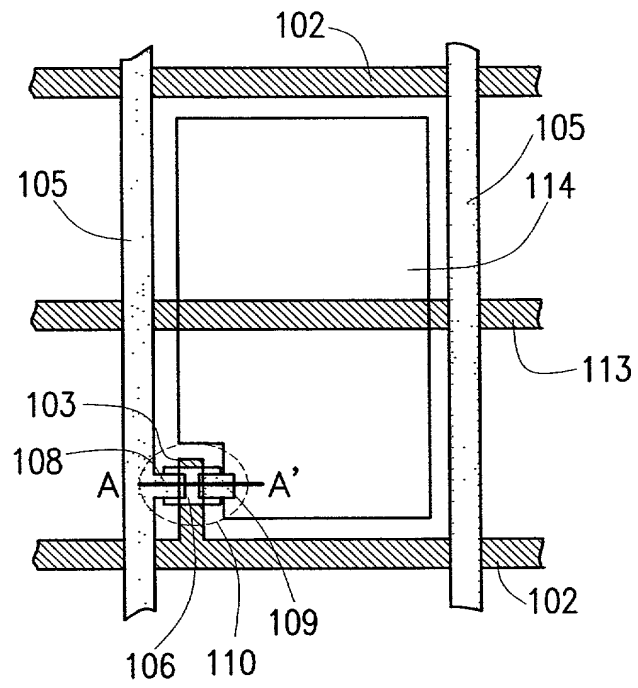


FIG. 45B

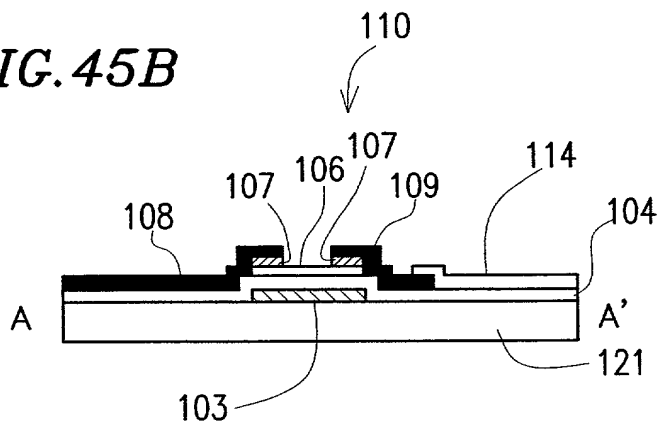


FIG. 46A

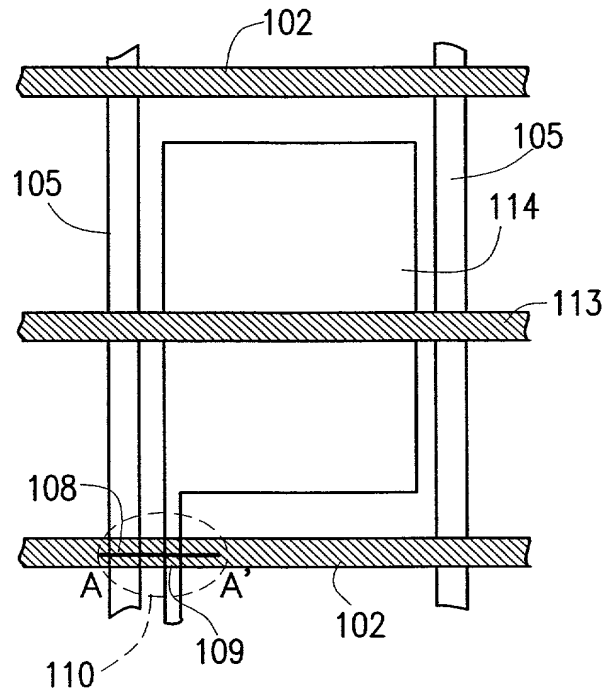


FIG. 46B

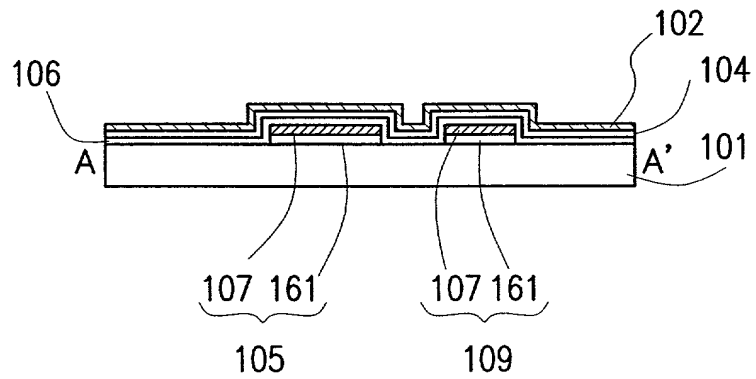


FIG. 47

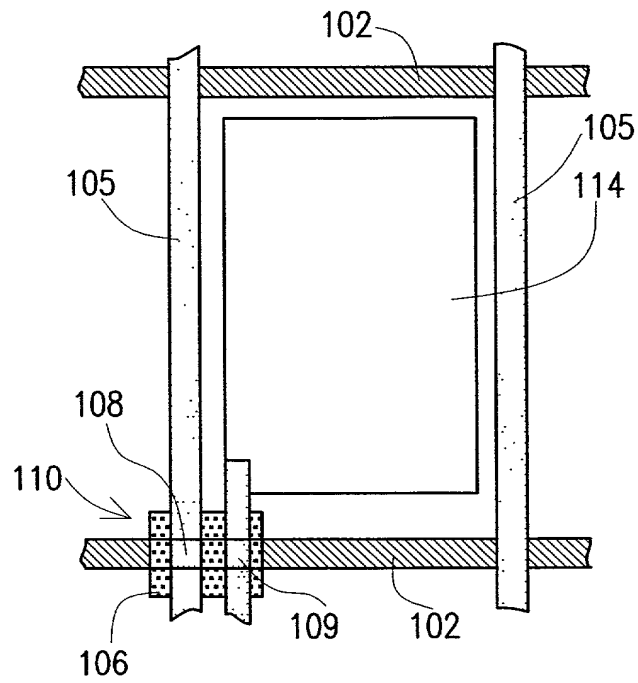


FIG. 48

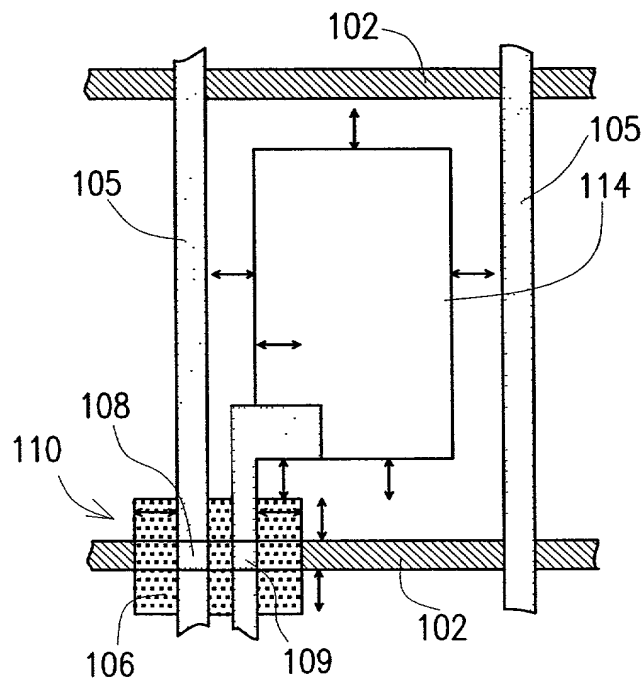


FIG. 49

